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Notice of Allowability

Application No.

09/503,037

Examiner

Joseph E. Avellino

Applicant(s)

KORB ET AL.

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Interview dated 9/25/07.
2. ☒ The allowed claim(s) is/are 52-81.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

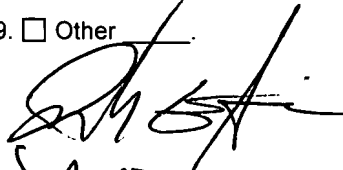
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date herewith.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other


S. AVELLINO, EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Pejman Sharifi on September 25, 2007.

The application has been amended as follows:

Please **AMEND** the claims as follows:

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52. (Currently Amended) A web server for transferring data from the Internet to mobile wireless devices that have limited display capabilities, comprising:

a web server that is connected to wireless devices via one or more corresponding wireless communications networks of the wireless devices, and is also connected to the Internet, , and

wherein the web server is further configured to

receive requests from users of the wireless devices to view Internet web pages, wherein the requests, which are formatted in a transport protocol by a requesting wireless device to be suitable for transmission over its corresponding wireless communication network, are received by the web server in accordance with ~~a~~ that transport protocol ~~used by a requesting wireless device in its corresponding wireless communications network,~~ wherein the transport protocol ~~includes~~ inserts an element that identifies the type of wireless device that is making the request,

reformat the requests into HTTP requests,

send the HTTP requests to destination servers on the Internet in accordance with an Internet transport protocol,

receive the requested web pages from the destination servers,

parse data elements contained in the received web pages and remove non-displayable data elements from the web pages to generate displayable web pages based on the wireless device type of the requesting wireless device, and

send the web pages, without including the removed data elements, over the wireless communications networks to the requesting wireless device.

60. (Currently Amended) A method for transferring data from the Internet to mobile wireless devices that have limited display capabilities, comprising:

connecting a web server to wireless devices via one or more corresponding wireless communications networks of the wireless devices, and also connecting the web server to the Internet;

receiving requests from users of the wireless devices to view Internet web pages, wherein the requests, which are formatted in a transport protocol by a requesting wireless device to be suitable for transmission over its corresponding wireless communication network, are received in accordance with a transport protocol used by a requesting wireless device in its corresponding wireless communications network, wherein the transport protocol ~~includes~~ inserts an element that identifies the type of wireless device that is making the request,

reformatting the requests into HTTP requests,

sending the HTTP requests to destination servers on the Internet in accordance with an Internet transport protocol,

receiving the requested web pages from the destination servers,

parsing data elements contained in the received web pages and removing non-displayable data elements from the web pages to generate displayable web pages based on the wireless device type of the requesting wireless device, and

sending the web pages, without including the removed data elements, over the wireless communications networks to the requesting wireless devices.

Claim 80, line 1: after the phrase "A system comprising the web server of claim", delete "51", and insert ---52---.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: The prior art does not provide for, nor suggests providing for a web server for transferring data from the internet to a mobile device with limited display capabilities, the web server receives requests from clients wherein a transport protocol implemented on the client device inserts an element into the packet which identifies the type of wireless device that is making the request, reformatting the request into HTTP request, sending the HTTP request to destination server (i.e. internet servers), receiving the requested pages, parsing the webpage, removing the non-displayable portions of the web page referring to the device type of the mobile device, and then sending the web page back to the mobile client device. The wireless device user desiring to browse a web page will send a request over the wireless communications network to the web server via a client process using a transport protocol suitable for transmission over a low bandwidth network. The protocol includes an element which identifies the type of wireless device making the request and the type of wireless communications network to which the wireless device is connected. It is the transport protocol which inserts the device type and network type into the request, these elements are not passed down through the protocol stack, rather they are inserted during the encapsulation process. The transport protocol is a transport protocol suitable for transmission over a wireless communications network, such as one based on UDP/IP. The data that is removed from the web page is dependent upon the wireless device type. A child process reformats the web page by building tags containing the remaining data, the page is written to a file, encrypted,

compressed, and transmitted over the wireless communications network 14 for delivery to the wireless device 12 by the server.

The closest prior art of record would be Hawkins used in the most recent rejection. Hawkins does not disclose inserting the device type or the wireless network type at the transport layer. This information is inserted at a higher layer which is then encapsulated by the transport layer, and thus does not teach the insertion at the transport layer. For these reasons, in conjunction with the other limitations of the independent claims, puts this case in condition for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph E. Avellino whose telephone number is (571) 272-3905. The examiner can normally be reached on Monday-Friday 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (571) 272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to read 'J. Avellino', is written over the printed name.

Joseph E. Avellino, Examiner

9/27/07